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(54) POLY(1,4-PYRIDINIUM) SALT AND ITS USE METHOD

(57)Abstract:

PURPOSE: To obtain the title salt with high refractive index and low optical dispersion and good solubility in org.

solvents by reacting 4-bromo- or 4- chloropyridine with an inorg. compd. in an org. solvent.

CONSTITUTION: 4-Bromopyridine or 4-chloropyridine is reacted with an inorg. compd. (e.g. sodium tetraphenylborate, etc.), in an org. solvent at a temp. within the range of 20-100° C and the anion X- of this inorg. compd. has an average mol.wt. larger than 100 and the cation forms a chloride or bromide being hardly soluble in the org. solvent to obtain a poly(1,4-pyridinium) salt of formula (n is at least 5 and the average mol.wt. of the anion X- is at least 100). A polypyridinium salt with high refractive index and low optical dispersion and good solubility in org. solvents can be obtd. by the above process.

